

Q1. Study the following piece of code that is used to print out the local machine's address and then sits in a loop accepting hostnames and looking them up. Answer the following questions.

```
public static void main(String[] args){
    printLocalAddress();
    InputStreamReader in= new InputStreamReader(System.in);
    BufferedReader br = new BufferedReader(in);

    String name;
    do{
        System.out.println("Enter a hostname or IP address:");
        name = br.readLine();
        printRemoteAddress(name);
    }while(name!= null)
```

Print host name and IP address

Write the code for implementing the following two functions:

a. printLocalAddress(): [5 Marks]

```
1. void printLocalAddress()
2. { InetAddress ad = InetAddress.getLocalHost();
3. System.out.println("IP / HostName" + ad.getLocalHost());
4. }
5.
```

b. printRemoteAddress(name): [5 Marks]

```
1. void printRemoteAddress(String name)
2. { InetAddress ad = InetAddress.getByName(name);
3. System.out.println("IP : " + ad.getHostAddress());
4. System.out.println("Host Name : " + ad.getHostName());
5. }
```